

AMENDMENTS TO THE CLAIMS:

1. (Canceled)
2. (Currently Amended) A system for preparing an autologous solid-fibrin web suitable for regenerating tissue in a living organism, the system comprising:
a sealed primary container containing a separation medium capable of separating red blood cells from plasma when the container contains blood and is centrifuged, the primary container having a first pressure;
a sealed secondary container containing an ionic coagulation activator, the secondary container having a second pressure that is less than the first pressure; and
a transfer device capable of providing fluid communication between the first and second containers The system of claim 1,
wherein the separation medium is at least one of a gel, beads and a float device.
3. (Currently Amended) The system of claim 1-2, wherein the secondary container is evacuated.
4. (Currently Amended) The system of claim 1-2, wherein the ionic coagulation activator is selected from calcium chloride, calcium fluoride, calcium carbonate, calcium gluconate, calcium fumarate, calcium pyruvate and combinations thereof.
5. (Currently Amended) The system of claim 1-2, wherein the primary container further contains an anti-coagulant.
6. (Currently Amended) A system for preparing an autologous solid-fibrin web suitable for regenerating tissue in a living organism, the system comprising:
a sealed primary container containing a separation medium capable of separating red blood cells from plasma when the container contains blood and is centrifuged, the primary container having a first pressure;
a sealed secondary container containing an ionic coagulation activator, the secondary container having a second pressure that is less than the first pressure; and

a transfer device capable of providing fluid communication between the first and second containers,

wherein the transfer device comprises a cannula having a first end and a second end, the first and second ends being capable of puncturing the sealed primary and secondary containers, and

~~The system of claim 42,~~ wherein the first and second ends are each covered by an elastomeric sleeve, the elastomeric sleeve being retractable when the first or second ends puncture the primary or secondary sealed containers.

7-8. (Canceled)

9. (Currently Amended) The system of claim 7-11, wherein the ionic coagulation activator is selected from calcium chloride, calcium fluoride, calcium carbonate, calcium gluconate, calcium fumarate, calcium pyruvate and combinations thereof.

10. (Canceled)

11. (Currently Amended) A system for preparing an autologous solid-fibrin web capable of regenerating tissue in a living organism, the system comprising:
a sealed primary container having a first pressure, the primary container being capable of having blood drawn therein;
a sealed secondary container having a second pressure and containing an ionic-coagulation activator, the second pressure being less than the first pressure; and
a transfer device capable of puncturing the sealed containers, the transfer device being capable of transferring a portion of blood drawn in the primary container to the second container by pressure differentiation,
wherein the primary container contains a separation medium, a high-viscosity-low-density fluid and an anticoagulant, and
~~The system of claim 10,~~ wherein the separation medium is at least one of gel, beads and a float.

12-19. (Canceled)

20. (Withdrawn) A system for preparing a solid-fibrin web suitable for regenerating tissue in a living organism, the system comprising:

a sealed primary collection device having an interior and containing a separation medium, the primary collection device being capable of having blood drawn into the interior, the separation medium being capable of separating plasma from red blood cells when the primary collection device contains blood and is centrifuged; and

a reservoir having a chamber and a conduit in fluid communication therewith, the chamber having a calcium-coagulation activator therein, and the conduit being at least partially filled with a blocking medium to prevent the activator from flowing out of the chamber under ambient conditions.

21. (Withdrawn) The system of claim 20, wherein the conduit is a cannula, and the cannula has an end capable of puncturing the sealed primary collection device.

22. (Withdrawn) The system of claim 21, wherein the end is covered by an elastomeric sleeve that is capable of retracting when the end punctures the sealed primary container.

23. (Withdrawn) The system of claim 20, wherein the blocking medium has a yield point such that it does not move when the system is centrifuged at about 900 to about 1500 xG, but that does move into the primary collection device when the cannula of the reservoir pierces the seal of the reservoir and the system is centrifuged at about 2300 to about 6000 xG.

24. (Withdrawn) The system of claim 20, wherein the calcium-coagulation activator is at least one of calcium chloride, calcium fluoride, calcium carbonate, calcium gluconate, calcium fumarate, calcium pyruvate and combinations thereof.

25. (Withdrawn) The system of claim 20, wherein the collection device and the reservoir are integral, and the conduit provides the only fluid communication between the interior of the collection device and the reservoir.

26. (Withdrawn) A method of preparing a solid-fibrin web capable of regenerating tissue in a living organism, the method comprising:

 drawing blood from a patient into a primary collection device having a seal;

 providing a reservoir including a chamber and a conduit in fluid communication with the chamber, the chamber being at least partially filled a calcium-coagulation activator, the conduit being at least partially filled with a blocking medium to prevent the activator from flowing out of the chamber under ambient conditions;

 connecting the reservoir to the primary collection device such that the chamber, conduit and collection device would be in fluid communication but for the blocking medium;

 centrifuging the primary collection device at a first rate, the first rate being sufficient to separate plasma from blood, yet not sufficient to move the blocking medium in the conduit into the primary collection device; and

 centrifuging the primary collection device at a second rate, the second rate being sufficient to move at least a portion of the blocking medium from the conduit into the primary collection device, thereby allowing the calcium-coagulation activator to flow into the collection device and contact the plasma; and

 continuing to centrifuge the device at the second rate, thereby forming a solid-fibrin web suitable for regenerating tissue in a living organism.

27. (Withdrawn) The method of claim 26, whereby centrifuging the primary collection device at the second rate is preformed for a sufficient time to concurrently centrifuge and coagulate the plasma and activator in order to form the fibrin web.

28. (Withdrawn) The method of claim 26, wherein the calcium coagulation activator is at least one of calcium chloride, calcium fluoride, calcium carbonate, calcium gluconate, calcium fumarate, calcium pyruvate and combinations thereof.

29. (Withdrawn) The method of claim 26, wherein the conduit is a cannula having a sharp end, and wherein connecting the reservoir to the primary collection device is accomplished by puncturing the seal with the end of the cannula.

30. (Withdrawn) The method of claim 29, wherein the end of the cannula is covered by an elastomeric sleeve capable of being retracted when the end punctures the seal.

31. (Currently Amended) The system of claim 1-2, wherein the secondary container contains one or more of an antibiotic, an analgesic, a cancer therapeutic, a platelet-growth factor and a bone morphogenic protein.

32. (Currently Amended) The system of claim 7-11, wherein the secondary container contains one or more of an antibiotic, an analgesic, a cancer therapeutic, a platelet-growth factor and a bone morphogenic protein.

33. (Withdrawn) The system of claim 20, wherein the chamber contains one or more of an antibiotic, an analgesic, a cancer therapeutic, a platelet-growth factor and a bone morphogenic protein.

34. (Withdrawn) The method of claim 26, wherein the chamber contains one or more of an antibiotic, an analgesic, a cancer therapeutic, a platelet-growth factor and a bone morphogenic protein.

35-37. (Canceled)

38. (Currently Amended) The system of claim 35-11, wherein the transfer device comprises a cannula having a first end and a second end, and wherein the first and second ends are each covered by an elastomeric sleeve, the elastomeric sleeve being retractable when the first or second ends puncture the primary or secondary sealed containers.

39-43. (Canceled)

44. (New) The system of claim 6, wherein the secondary container is evacuated.

45. (New) The system of claim 6, wherein the ionic coagulation activator is selected from calcium chloride, calcium fluoride, calcium carbonate, calcium gluconate, calcium fumarate, calcium pyruvate and combinations thereof.

46. (New) The system of claim 6, wherein the primary container further contains an anti-coagulant.

47. (New) The system of claim 6, wherein the secondary container contains one or more of an antibiotic, an analgesic, a cancer therapeutic, a platelet-growth factor and a bone morphogenic protein.

48. (New) The system of claim 11, wherein the secondary container is evacuated.